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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,516	06/29/2005	Gou Shimada	Q84937	5133	
2337) 10/28/2008 SUGHRUE MION, PLLC 2100 PENNSYL-VANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037			EXAMINER		
			PRAKASAM, RAMYA G		
			ART UNIT	PAPER NUMBER	
,			3651	•	
			MAIL DATE	DELIVERY MODE	
			10/28/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/516,516 SHIMADA, GOU

Office Action Summary		Examiner	Art Unit	
		RAMYA G. PRAKASAM	3651	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence ac	ldress
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY THE WALLING DY STATE IN A STATUTORY PERIOD FOR REPLY STATE IN A STATE IN	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,
Status				
2a)⊠	Responsive to communication(s) filed on <u>18 Ju</u> This action is FINAL . 2b) This Since this application is in condition for allowar	action is non-final.	secution as to the	e merits is
ا ا	closed in accordance with the practice under E			,oo
Dienosit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 10-20 is/are pending in the application 4a) Of the above claim(s) 16-19 is/are withdraw Claim(s) is/are allowed. Claim(s) 10-15 and 20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.		
Applicat	ion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed onis/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Theorem of the specific or accordance on the specific or accordance on the specific or accordance or accorda	epted or b) objected to by the I drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	a 37 CFR 1.85(a). jected to. See 37 C	
Priority (under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachmen				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Interview Summary Paper No(s)/Mail Da		

Attachment(s)		
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information-Disclosure-Statement(e) (PTO/62/CS) Paper No(s)Mail Date	4) Interview Summary (PTO-413) Paper No(s) Mail Date. 5) Notice of Informal Patent Application. 6) Other:	
S. Patent and Trademark Office		

Application/Control Number: 10/516,516 Page 2

Art Unit: 3651

DETAILED ACTION

 The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 10-15 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Sugano (US Patent No. 6.485.287).

Sugano discloses a screw for use in an extruder comprising:

- A cylinder (See Figure 1);
- Wherein a height of a flight portion of that part of the screw (11) located below the hopper (5)port is lower than a height of a flight portion located at a downstream side, and said height at said part varies continuously in a peripheral direction over a predetermined rotational angle of the screw (See Figure 1 at 8).
- Wherein a portion where the height of the flight portion is lower than the height of the flight portion on the downstream side has an angle of 180 or less (See Figure 1).
- Wherein the number of threads on an upstream side of the screw is made smaller than a number of threads on the downstream side (See Figures 1 and 6).
- Wherein an interval of the threads on an upstream side is made wider than an interval
 of the threads on the downstream side (See Figures 1 and 6).

Application/Control Number: 10/516,516 Page 3

Art Unit: 3651

□ Wherein the diameters of the threads on an upstream side of the screw are made larger than the diameters of the threads on a downstream side (See Figures 1 and 6).

- Wherein the height of the flight portion located below the hopper port is between 2% and 6% smaller than the diameter of the screw (See Figures 1 and 6).
- Wherein the cylinder has a consistent inner diameter from the hopper port to a last thread of the screw at the downstream end (See Figures 1 and 6).

Response to Arguments

 Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. PTO-892 contains patents that disclose a screw wherein a height of the flight portion of the screw located below the hopper is lower than the height located at the downstream side.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 10/516,516

Art Unit: 3651

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAMYA G. PRAKASAM whose telephone number is (571)272-6011. The examiner can normally be reached on Monday - Thursday, 8:30am-7pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gene Crawford/ Supervisory Patent Examiner, Art Unit 3651

10/25/2008 RGP